| | Hits | Search Text | DBs | Time Stamp |
|---|---|---|---|---|
| 1 | 6023 | 435/4,7.1.ccls. | USPAT | 2002/10/19 09:49 |
| 2 | 13324 | mass adj spectrometry | USPAT | 2002/10/19 09:50 |
| 3 | 446 | 435/4,7.1.ccls. and (mass adj spectrometry) | USPAT | 2002/10/19 09:50 |
| 4 | 3885 | 435/7.1.ccls. | USPAT | 2002/10/19 09:50 |
| 5 | 338 | 435/7.1.ccls. and (mass adj spectrometry) | USPAT | 2002/10/19 09:51 |
| 6 | 10151 | internal adj standard | USPAT | 2002/10/19 09:52 |
| 7 | 18 | (435/7.1.ccls. and (mass adj spectrometry)) and (internal adj standard) | USPAT | 2003/12/11 12:18 |
| 8 | 661 | (mass adj spectrometry).clm,ab. | USPAT | 2002/10/19 10:01 |
| 9 | 39 | 435/4,7.1.ccls. and ((mass adj spectrometry).clm,ab.) | USPAT | 2002/10/19 10:01 |
| 10 | 29 | (435/7.1.ccls. and (mass adj spectrometry)) and (internal adj standard) | USPAT | 2003/12/11 12:18 |

L20 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1989:490544 CAPLUS
DOCUMENT NUMBER: 111:90544
TITLE: Quantitation of endogenous substance P by on-line microcolumn liquid chromatography/continuous-flow fast-atom bombardment ***mass*** ***spectrometry***
AUTHOR(S): Lisek, Carol A.; Bailey, Jane E.; Benson, Linda M.; Yaksh, Tony L.; Jardine, Ian
CORPORATE SOURCE: Dep. Pharmacol., Mayo Clinic, Rochester, MN, 55905, USA
SOURCE: Rapid Communications in Mass Spectrometry ( ***1989*** ), 3(2), 43-6
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AB Cat spinal cord substance P (SP) as detd. by the title method agreed well with that detd. by a std. RIA; e.g. anal. value were 39.0 and 40.7 pmol, resp. The most important part of the title method is the immunol. purifn. of the sample prior to mass spectrometric anal. The spinal cord ext. plus the ***internal*** std. [D8-Phe8]SP was applied to an ***immunoaffinity*** column contg. rabbit polyclonal antibodies immobilized an CNBr-activated Sepharose 4B and eluted with 20% aq. formic acid. The lyophilized purified sample was then chromatog. desalted with a recovery of >90%. Dynamic fast-atom bombardment selected ion monitoring ***mass*** ***spectrometry*** was carried out with and without a fused silica capillary column and a mobile phase of 1% trifluoroacetic acid + 5% glycerol in 50% aq. MeOH. The protonated mols. [D0]SP and [D8]SP were monitored at m/z 1368.7 and 1356.7, resp. Replicate injection (0.1 .mu.L) of 0.10-1.0 pmol [D0]SP analyzed in the absence of the microcolumn gave a limit of detection of 0.10 pmol. In the presence of the microcolumn there was a higher limit of detection of 0.10-0.25 pmol for [D0 + D8]SP. In all cases the deuterated ***internal*** std. coeluted with the peak of the endogenous sample having both SP-like immunoreactivity and a mass corresponding to the protonated mol. of SP.